

Lab Assignment



Cybersecurity Professional Program
Introduction to Python
for Security

Data Types & Conditions

PY-02-L2

Basic Conditions

Lab Objective

Learn the basics of conditional operators and how to use them.

Lab Mission

Practice using basic conditional operators in Python.

Lab Duration

10–20 minutes.

Requirements

- Knowledge of user input handling.
- Working knowledge of variables.
- Familiarity with if-else statements.

Resources

- Environment & Tools
 - Windows, MacOS
 - Python 3
 - PyCharm

Textbook References

- Chapter 2: Data Types & Conditions
 - Section 1: Variables and User Output
 - Section 2: Operators and Casting
 - Section 3: Conditions

Lab Task

Create a new script that checks if users can legally purchase an alcoholic beverage. Receive user input for two variables: name and age. Use conditional operators to compare the age variable against the legal age.

1. Create two variables, name, and age, and use the *input()* function to get user input.

```
name = input("What is your name? ")
age = input("What is your age? ")
```

2. Use the *int()* function to cast the variable age from a **String** data type to an **integer** data type.

```
age = int(age)
```

3. Print a greeting containing the user's name and age. Use the format method to insert the variables.

```
print("Hello {}, your age is {}".format(name, age))
```

4. Create an if-else statement to check if the user is old enough to purchase an alcoholic beverage and print an appropriate message.

```
if age >= 21:
    print("You can buy an alcoholic beverage")
else:
    print("You cannot buy an alcoholic beverage")
```